

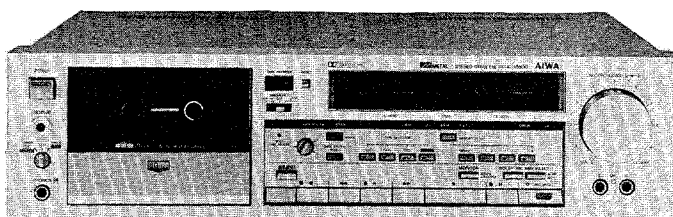
# STEREO CASSETTE DECK

## MODEL No. AD-M800H, C, U, BU, G

# AIWA®

## [SERVICE MANUAL]


Code No. 04-800-000-69



DATE OF ISSUE 10/1980

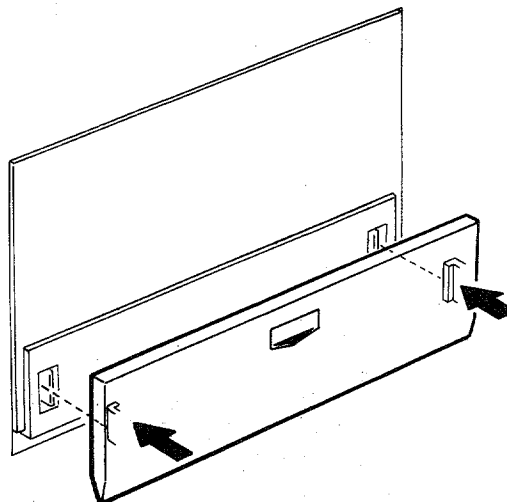
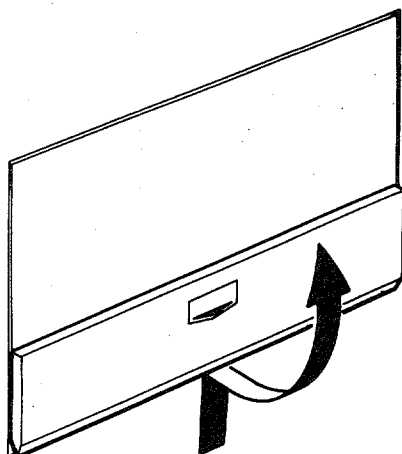
### SPECIFICATIONS

<b>Semiconductors:</b>	53 ICs, 1 FET, 143 transistors, 98 diodes & 1 PIN diode, 27 LED's	<b>Channel separation:</b>	More than 35 dB
<b>Power supply:</b>	H model AC 120V/220V/240V switchable 50/60 Hz C, U, BU model AC 120V, 60 Hz G model AC 120V/240V switchable 50/60 Hz H, U, BU, G model	<b>Cross talk:</b>	More than 60 dB
<b>Power consumption:</b>	26W C model 29W	<b>Erasing ratio:</b>	More than 60 dB
<b>Dimensions:</b>	450(W) x 120(H) x 300(D) mm [17-3/4"(W) x 4-3/4"(H) x 11-1/4"(D)]	<b>Bias frequency:</b>	105 kHz
<b>Weight:</b>	7.2 kg (15.86 lbs.)	<b>Frequency response:</b>	METAL 20 ~ 20,000 Hz CrO <sub>2</sub> 20 ~ 18,000 Hz Fe-Cr 20 ~ 19,000 Hz LH 20 ~ 17,000 Hz
<b>Track type:</b>	4 tracks 2 channel	<b>Motor:</b>	FG servo motor (capstan) DC motor (reel)
<b>Tape speed:</b>	4.8 cm/s (1-7/8 ips) ± 1.5%	<b>Inputs:</b>	MIC max. sensitivity 0.3 mV (200 Ω ~ 10 kΩ suitable) LINE IN max. sensitivity 50 mV (Optimum load impedance more than 50 kΩ)
<b>Wow and flutter:</b>	Less than 0.04% (WRMS)	<b>Outputs:</b>	LINE OUT Standard level 0.41 V (0 VU) (Optimum load impedance more than 50 kΩ) PHONES 8Ω ~ 150Ω, 2 mW (0 VU)
<b>Automatic stop system:</b>	Full auto stop		
<b>Automatic shut-off action time:</b>	3 ± 1 s.		
<b>Pinch roller pressure:</b>	450 ± 40 g (4.41 ± 0.39N)		
<b>Take-up torque:</b>	50 ± 10g-cm (490 ± 98 mN·m)		
<b>FF &amp; rewind time:</b>	90 s. (C-60)		
<b>Play back output:</b>	0.58 ± 0.05V (LINE)		
<b>(TTA-161)</b>			
<b>Play back noise:</b>	Less than 1.1 mV (METAL, CrO <sub>2</sub> , Fe-Cr DOLBY NR ON) Less than 2.2 mV (LH DOLBY NR OFF) 0 VU ± 1.5 dB (LINE)		
<b>Rec./PB output:</b>			
<b>(TTA-119G)</b>			
<b>Rec./Pb distortion:</b>	Less than 1.0% (METAL) Less than 1.2% (CrO <sub>2</sub> ) Less than 1.0% (Fe-Cr) Less than 1.5% (LH) Less than 2.2/1.2 mV (METAL, CrO <sub>2</sub> , Fe-Cr DOLBY-NR OFF/ON) Less than 2.8/1.4 mV (LH DOLBY-NR OFF/ON)		
<b>Rec./Pb noise:</b>			
<b>(Unweighted)</b>	Less than 1.1/0.5 mV (METAL, CrO <sub>2</sub> , Fe-Cr DOLBY-NR OFF/ON) Less than 1.5/0.7 mV (LH DOLBY-NR OFF/ON)		
<b>(Weighted-A)</b>			

- Specifications and external appearance are subject to change without due to product improvement.
- Dolby Noise Reduction System is licensed from Dolby Laboratories.
- The name "Dolby" and  symbol are trademarks of Dolby Laboratories.

## Caution

- Remove the cassette compartment cover by first pushing upwards and then pulling out.
- When reattaching, align the compartment cover with the tabs and press as shown in the illustration.

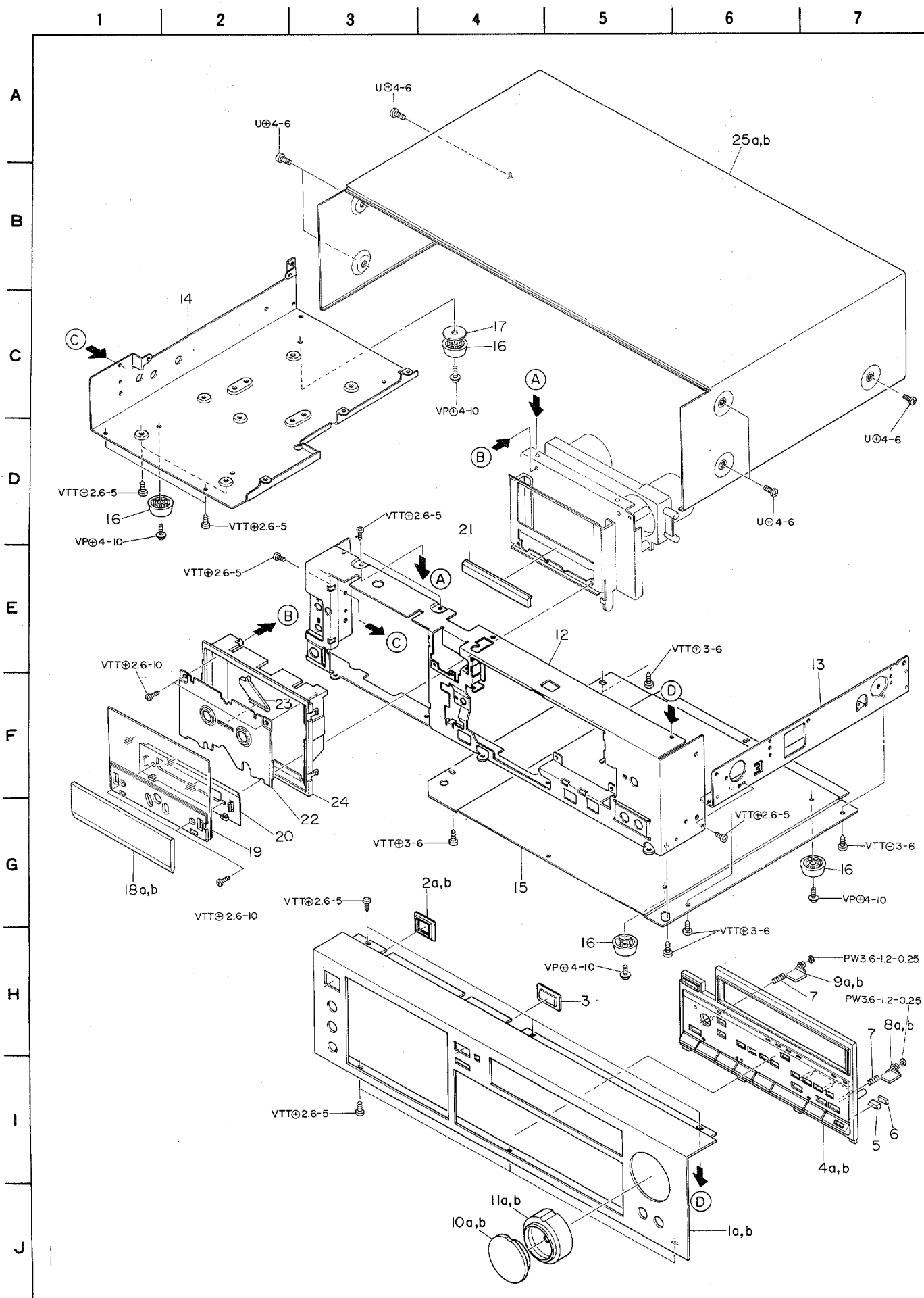


## ACCESSORIES/PACKAGE

Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
1a	82-155-858-01		Printed indiv., Packing (H,C,G model only)	*	1
1b	82-155-854-01		Printed indiv., Packing (U model only)	*	1
1c	82-155-863-01		Printed indiv., Packing (BU model only)	*	1
2a	82-162-852-11		Cushion L, Printed indiv. (H,C,BU,G model only)	AD-R500	1
2b	82-155-860-11		Cushion L, Printed indiv. (U model only)	*	1
3a	82-162-853-01		Cushion R, Printed indiv. (H,C,BU,G model only)	AD-R500	1
3b	82-155-861-01		Cushion R, Printed indiv. (U model only)	*	1
4	87-051-131-11		Poly-vinyl sack (for AC power cord)		1
5	87-056-607-01		Poly-vinyl sack (for case)		1
6a	82-155-859-01		Support cushion (H,C,U,G model only)	*	1
6b	82-155-865-01		Support cushion (BU model only)	*	1
7a	82-155-906-11		Instructions booklet (H,C model only)	*	1
7b	82-155-910-11		Instructions booklet (U,BU model only)	*	1
7c	82-155-909-01		Instructions booklet (G model only)	*	1
8	87-051-132-11		Poly-vinyl sack		1
9	87-051-135-11		Poly-vinyl sack		1
10	87-051-175-01		Poly-tube A (for instruction)		1
11	87-056-009-41		Distributors list (H,C,G model only)		1
12a	87-056-013-01		Guarantee card (C model only)		1
12b	87-056-045-01		Guarantee card (U,BU model only)		1
12c	87-056-032-01		Guarantee card (G model only)		1
13	87-056-057-01		Service station list (U,BU model only)		1
14	82-155-081-01		Handle (BU model only)	*	2
15	82-155-951-11		Screw handle ass'y	*	1
16	86-944-012-01		Connection cord, CW-129BSK		2
17	87-032-845-01		Siemens plug (H model only)		1
18	87-056-050-01		Safety instruction (U,BU model only)		1
19	86-159-001-01		Remote control, RC-82		1
20	87-047-063-01		Battery, SUM-3AE		3

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## EXPLODED VIEW-1



## MECHANICAL PARTS

## PARTS LIST

■ \* mark in this part list shows exclusive part  
(which is used) for only Model No. AD-M800.

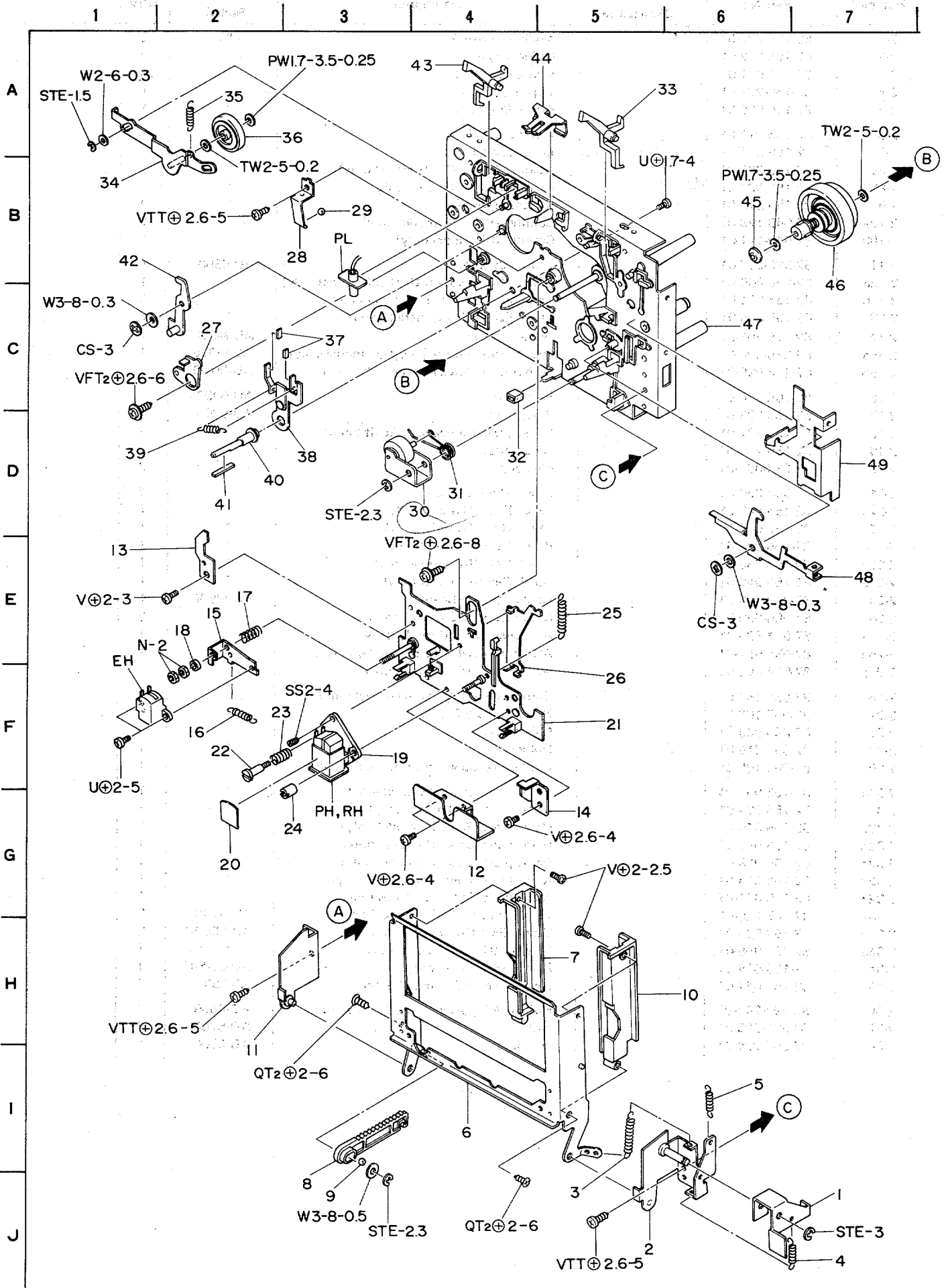
Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
1-1a	82-155-055-01		Panel, Front E (H,C,U,G model only)	*	1
1-1b	82-155-064-01		Panel, Front BU (BU model only)	*	1
1-2a	82-318-014-01		Guide, Power button (H,C,U,G model only)	AD-M600	1
1-2b	82-154-042-01		Guide, Power button (BU model only)	AM-M700	1
1-3	82-155-061-01		Window B, Counter	*	1
1-4a	09-047-187-01		Control panel ass'y (H,C,U,G model only)	*	1
	82-155-019-01		Guide, Control panel	*	1
	82-155-062-01		Control panel E	*	1
	82-155-063-01		Plate, LED	*	1
	82-155-030-01		Touch-key, Dummy	*	1
	82-155-024-01		Touch-key, PLAY	*	5
	82-155-025-01		Touch-key, STOP	*	1
	82-155-031-01		Touch-key, REC mute	*	1
1-4b	09-047-188-01		Control panel ass'y (BU model only)	*	1
	82-155-067-01		Guide, Control panel	*	1
	82-155-065-01		Control panel BU	*	1
	82-155-085-01		Plate, LED	*	1
	82-155-079-01		Touch-key, Dummy	*	1
	82-155-077-01		Touch-key, PLAY	*	5
	82-155-078-01		Touch-key, STOP	*	1
	82-155-080-01		Touch-key, REC mute	*	1
1-5	82-155-033-01		Knob, REC mute	*	1
1-6	82-155-218-01		S cushion, REC mute	*	1
1-7	82-155-214-01		C-spring, Eject	*	4
1-8a	82-155-017-01		Knob, Dolby (H,C,U,G model only)	*	3
1-8b	82-155-075-01		Knob, Dolby (BU model only)	*	3
1-9a	82-155-018-01		Knob, Eject (H,C,U,G model only)	*	1
1-9b	82-155-076-01		Knob, Eject (BU model only)	*	1
1-10a	82-155-005-01		Knob REC B ass'y (H,C,U,G model only)	*	1
1-10b	82-155-071-01		Knob REC B ass'y (BU model only)	*	1
1-11a	82-155-002-01		Knob REC A ass'y (H,C,U,G model only)	*	1
1-11b	82-155-069-01		Knob REC A ass'y (BU model only)	*	1
1-12	82-155-201-01		Chassis, Front	*	1
1-13	82-321-220-01		Amp. chassis B2	*	1
1-14	82-155-220-01		Amp. chassis A3	*	1
1-15	82-318-002-01		Cabinet, Bottom	AD-M600	1
1-16	87-085-161-01		Foot		4
1-17	82-154-223-01		G cushion, Foot	AD-M700	1
1-18a	82-155-013-01		Cassette lid (H,C,U,G model only)	*	1
1-18b	82-155-082-01		Cassette lid (BU model only)	*	1
1-19	82-155-014-01		Window, Cassette	*	1
1-20	82-155-039-01		Blind cassette	*	1
1-21	82-155-042-01		Name, Cassette lid	*	1
1-22	82-155-037-01		Plate, Cassette	*	1
1-23	82-154-015-01		Guide, Right	AD-M700	1
1-24	82-155-023-01		Blinder	*	1
1-25a	82-155-016-01		Cabinet, Steel (H,C,U,G model only)	*	1
1-25b	82-155-066-01		Cabinet, Steel (BU model only)	*	1
[U model only]					
	82-162-032-01		Side board L ass'y (U model only)	AD-R500	1
	82-155-058-01		Side board R ass'y (U model only)	*	1
	87-259-178-01		U + 4 - 25 (U model only)		6

the 1990s, the number of people in the world who are illiterate has increased from 1.2 billion to 1.5 billion. The number of illiterate people in the world is projected to reach 1.7 billion by the year 2015. The number of illiterate people in the world is projected to reach 1.7 billion by the year 2015.



Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
2-1	82-155-020-01		Knob, Control A	*	2
2-2	82-155-022-01		Guide, Light	*	8
2-3	82-155-021-01		Knob, Control B	*	8
2-4	82-155-221-01		T-spring, Earth	*	1
2-5	82-155-038-01		Knob, Control C	*	1
2-6	82-155-212-01		Lamp cover R	*	1
2-7	82-155-211-01		Lamp cover L	*	1
2-8a	82-155-205-01		Guide, LED (H,C,U,G model only)	*	1
2-8b	82-155-087-01		Guide, LED (BU model only)	*	1
2-9	82-155-219-01		S cushion, Meter	*	2
2-10a	87-040-128-01		Counter (H,C,U,G model only)		1
2-10b	87-040-141-01		Counter (BU model only)		1
2-11	82-385-253-01		Belt L, Counter	AD-6300	1
2-12a	82-155-009-01		Knob, Slide switch B (H,C,U,G model only)	*	1
2-12b	82-155-074-01		Knob, Slide switch B (BU model only)	*	3
2-13	82-155-008-01		Knob, PB (H,C,U,G model only)	*	2
2-14	82-318-205-01		Holder, Power	AD-M600	1
2-15a	82-318-025-01		Push-button, Power (H,C,U,G model only)	AD-M600	1
2-15b	82-154-030-01		Push-button, Power (BU model only)	AD-M700	1
2-16	82-304-210-01		Rod power	AD-6900	
2-17	82-385-383-01		Stopper rod	AD-6300	1
2-18	82-155-202-01		Holder, Microprocessor circuit board	*	2
2-19	82-155-217-01		Amp. chassis	*	1
2-20	87-038-052-01		Wire crip	*	2
2-21	87-064-056-01		Hinge, Circuit board		2
2-22a	82-155-043-01		Panel, Rear (H model only)	*	1
2-22b	82-155-044-01		Panel, Rear (C model only)	*	1
2-22c	82-155-047-01		Panel, Rear (U model only)	*	1
2-22d	82-155-068-01		Panel, Rear (BU model only)	*	1
2-22e	82-155-048-01		Panel, Rear (G model only)	*	1
2-23	82-318-203-01		Holder, Circuit board	AD-M600	1
2-24	87-085-090-01		Nylon rivet (H,G model only)		2
2-25a	87-034-826-01		AC power cord (H model only)		1
2-25b	87-034-951-01		AC power cord (C,U,BU model only)		1
2-25c	87-034-892-01		AC power cord (G model only)		1
2-26	87-085-165-01		Cord bushing (H,C,U,BU model only)		1
2-27	87-085-102-01		Nylon rivt 3.5-5.5		6
2-28	87-085-080-01		Nylon rivet		2
2-29	82-155-216-01		Holder, PB	*	1
2-30	87-085-166-01		Holder, AC power cord (G model only)		1
2-31a	82-155-057-01		Knob, Tone (H,C,U,G model only)	*	1
2-31b	82-155-084-01		Knob, Tone (BU model only)	*	1
2-32a	82-155-049-01		Name plate, Spec. (H model only)	*	1
2-32b	82-155-050-01		Name plate, Spec. (C model only)	*	1
2-32c	82-155-053-01		Name plate, Spec. (U model only)	*	1
2-32d	82-155-083-01		Name plate, Spec. (BU model only)	*	1
2-32e	82-155-054-01		Name plate, Spec. (G model only)	*	1
2-33a	82-307-026-01		Guide, Pipe (H,C,U,G, model only)	AD-6700	2
2-33b	82-153-035-01		Guide, Pipe (BU model only)	AD-6900II	2
2-34a	82-155-056-01		Pipe A2 (H,C,U,G model only)	*	1
2-34b	82-153-034-01		Pipe A (BU model only)	AD-6900II	1
2-35	82-157-042-01		Knob, Timer (BU model only)	SD-L50	2
2-36	82-397-244-01		Holder, AC power cord (G model only)	AD-6550	1
2-37	82-307-235-01		Nut	AD-6700	1
2-38	82-307-234-01		G cushion	AD-6700	1

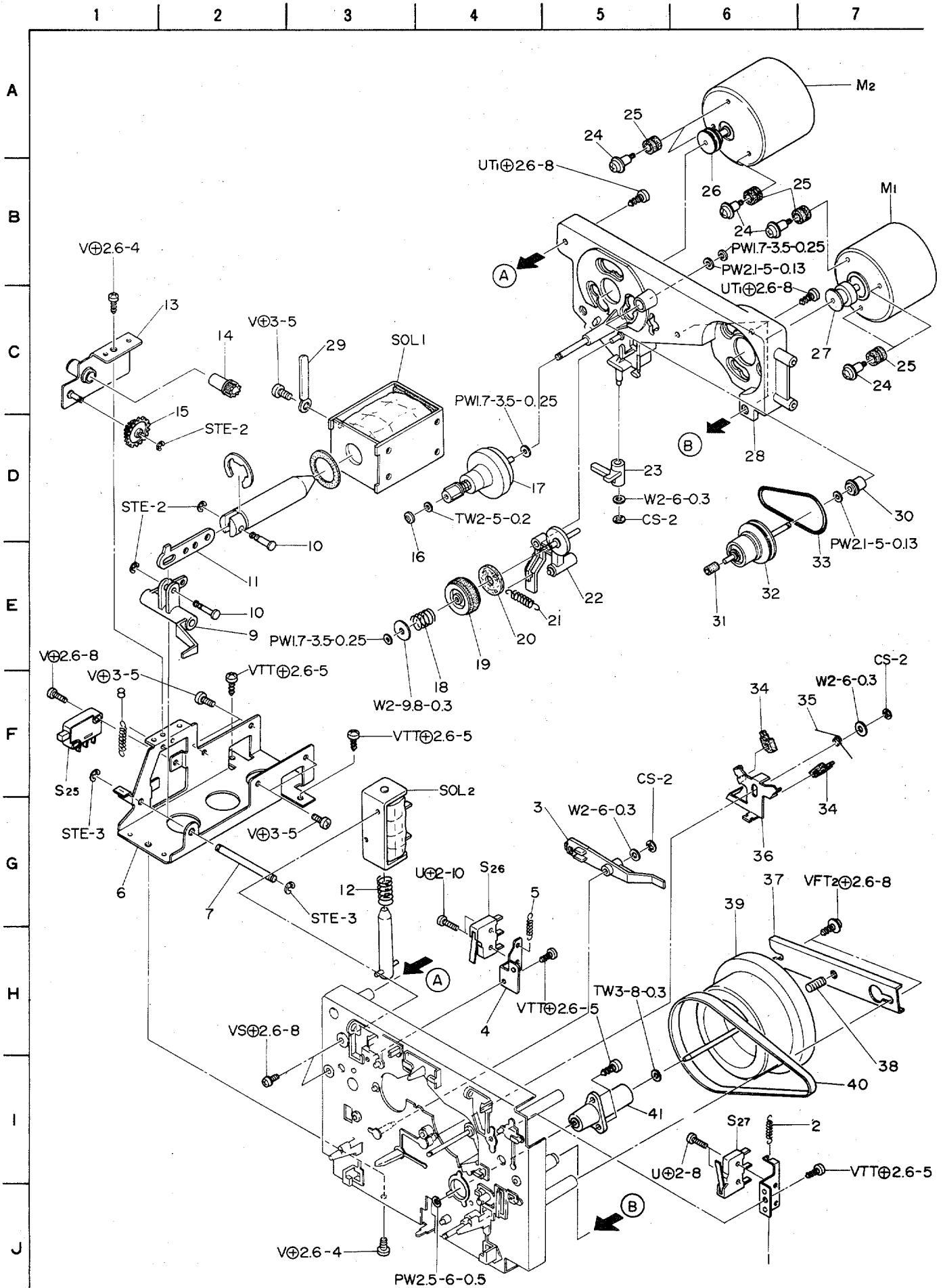
## EXPLODED VIEW-3





Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
3-1	82-155-204-01		Lever, Eject	*	1
3-2	82-319-220-01		Holder C, Box R ass'y	AD-M600	1
3-3	82-319-230-01		E-spring, Cassette lid	AD-M600	1
3-4	82-155-215-01		E-spring, Eject lever	*	1
3-5	82-392-374-01		E-spring, Pause A	AD-6550	1
3-6	82-155-206-01		Cassette box ass'y	*	1
3-7	82-155-040-01		Holder L2, Cassette	*	1
3-8	82-541-240-01		Lever, Oil damper	TPR-950	1
3-9	82-073-005-01		Steel ball 2φ		1
3-10	82-155-041-01		Holder R2, Cassette	*	1
3-11	82-319-223-01		Holder C, Box L ass'y	AD-M600	1
3-12	82-397-291-01		Shield plate, Head	AD-6550	1
3-13	82-319-209-01		Guide, Idler lever	AD-M600	1
3-14	82-303-294-01		Holder, T-spring	AD-6900	1
3-15	82-303-374-01		Holder, EH	AD-6900	1
3-16	82-154-220-01		E-spring, EH	AD-M700	1
3-17	82-154-209-01		C-spring, EH	AD-M700	1
3-18	82-303-371-01		Collar, EH	AD-6900	1
3-19	82-155-615-01		Head combination	*	1
3-20	82-304-069-01		Label, Head	AD-6900	1
3-21	09-047-181-01		Outsert actuating chassis ass'y	*	1
3-22	82-304-289-01		Screw, RPH	AD-6900	1
3-23	82-392-357-01		C-spring, Head	AD-6550	1
3-24	82-304-317-01		Nut, Azimuth	AD-6900	1
3-25	82-155-222-01		E-spring, Actuating	*	1
3-26	82-319-210-01		Slide plate, Actuating	AD-M600	1
3-27	82-303-288-01		Lever, Actuating lock	AD-6900	1
3-28	82-319-215-01		P-spring, Actuating A	AD-M600	1
3-29	82-215-341-01		Steel ball 3/32		1
3-30	82-319-270-01		Pinch roller ass'y	AD-M600	1
3-31	82-303-316-01		T-spring, Pinch lever	AD-M600	1
3-32	82-397-307-01		G cushion, Eject lever	AD-6550	1
3-33	82-303-349-01		Lever, CrO <sub>2</sub>	AD-6900	1
3-34	82-303-342-01		Play idler lever ass'y	AD-6900	1
3-35	82-303-325-01		E-spring, Play idler	AD-6900	1
3-36	82-303-274-01		Play idler ass'y	AD-6900	1
3-37	82-303-382-01		Felt, Sub brake	AD-6900	2
3-38	82-319-259-01		Lever, Back tension ass'y	AD-M600	1
3-39	82-154-221-01		E-spring, Back tension	AD-M700	1
3-40	82-154-212-01		Shaft, Tension	AD-M700	1
3-41	82-303-372-01		Felt, EH	AD-6900	1
3-42	82-319-235-01		Lever, PAC ass'y	AD-M600	1
3-43	82-303-346-01		Lever, REC blocking	AD-6900	1
3-44	82-319-214-01		P-spring, Cassette	AD-M600	1
3-45	82-303-398-01		Take up reel platform cap	AD-6900	1
3-46	82-303-249-01		Take up reel platform ass'y	AD-6900	1
3-47	09-047-175-01		Main chassis ass'y	*	1
3-48	82-319-211-01		Lever, Play switch	AD-M600	1
3-49	82-155-210-01		Lock lever	*	1

## EXPLODED VIEW-4



Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty	
4-1	82-319-241-01		Holder, CrO <sub>2</sub>	AD-M600	1	
4-2	82-319-251-01		E-spring, CrO <sub>2</sub>	AD-M600	1	
4-3	82-303-286-01		Lever, Brake	AD-6900	1	
4-4	82-303-350-01		Holder, REC blocking	AD-6900	1	
4-5	82-319-234-01		E-spring, REC blocking	AD-M600	1	
4-6	82-319-207-01		Holder, Plunger	AD-M600	1	
4-7	82-304-244-01		Shaft, Play lever	AD-6900	1	
4-8	82-304-249-01		E-spring, Actuating	AD-6900	1	
4-9	82-304-232-01		Lever, Play	AD-6900	1	
4-10	82-319-269-01		Shaft, Plunger	AD-M600	1	
4-11	82-319-250-01		Slide plate, Play B	AD-M600	1	
4-12	82-481-311-01		C-spring, Plunger	AF-3090	1	
4-13	82-319-225-01		Holder, Oil damper ass'y	AD-M600	1	
4-14	82-534-264-01		Gear, Oil damper			
4-15	82-319-239-01		Gear, Oil	AD-M600	1	
4-16	82-303-398-01		Take up reel platform cap	AD-6900	1	
4-17	82-154-216-01		Supply reel platform ass'y	AD-M700	1	
4-18	82-303-322-01		C-spring, FR idler	AD-6900	1	
4-19	82-303-271-01		Idler pulley FR ass'y	AD-6900	1	
4-20	82-303-335-01		Felt 6,4-14	AD-6900	1	
4-21	82-303-353-01		E-spring, FR lever	AD-6900	1	
4-22	82-303-277-01		FR lever ass'y	AD-6900	1	
4-23	82-303-292-01		Lever, Eject	AD-6900	1	
4-24	87-081-483-01		Motor screw M2.6		6	
4-25	82-439-319-01		Rubber cushion B	TPR-300	6	
4-26	82-319-247-01		Motor pulley, FR	AD-M600	1	
4-27	82-319-248-01		Motor pulley, Flywheel A	AD-M600	1	
4-28	09-047-152-01		Sub chassis ass'y	*	1	
4-29	87-064-080-01		Wire binder		1	
4-30	82-439-410-01		Shaft bearing 2φ	TPR-300	1	
4-31	82-303-309-01		Drive rubber	AD-6900	1	
4-32	82-303-330-01		Slip pulley ass'y	AD-6900	1	
4-33	82-303-385-01		Rubber belt FR B	AD-6900	1	
4-34	82-439-426-01		Brake shoe A	TPR-300	2	
4-35	82-303-318-01		T-spring, Brake	AD-6900	1	
4-36	82-303-297-01		Slide plate, Brake	AD-6900	1	
4-37	82-319-238-01		Plate, Flywheel	AD-M600	1	
4-38	82-331-107-01		Thrust screw		1	
4-39	82-154-218-01		Flywheel ass'y	AD-M700	1	
4-40	82-319-227-01		Rubber belt, Flywheel	AD-M600	1	
4-41	82-392-256-01		Shaft bearing ass'y	AD-6550	1	

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**AIWACO.,LTD.**

Symbol No.	Part No.	Description
J34, 5,6	82-030-639-01	Pin Jack Act'g
LINE IN/OUT	82-030-660-01	LINE IN/OUT (PLAY)
LPF501,202	82-150-960-01	500K, 100K
S1,2,3	82-155-645-01	Push-switch (MPX FILTER,
		DOLBY-NR, MONITOR)
SFFR101,102	87-021-615-01	Semi-fixed resistor, 47K±18
103,104	87-022-003-01	Pin, 3P
105,106	87-022-004-01	Pin, 4P
PIN-2	87-022-004-01	Pin, 4P
PIN-5	87-022-005-01	Pin, 5P
R501,502	87-028-070-01	2.2k Ω 1W
R602	87-028-067-01	4.7k Ω 1W (H.C.U model)
R814,15,15,606	87-029-017-01	100 Ω 1W Fuse resistor
R101,102	87-029-017-01	100 Ω 1W Fuse resistor
R111,112	87-029-284-01	3.6k Ω 1W ±1% Metal film resistor
R155,156,353	87-025-281-01	6.2k Ω 1W ±1% Metal film resistor
354	87-025-281-01	6.2k Ω 1W ±1% Metal film resistor
C300,304	87-015-242-01	< Capacitors >
C151,152,307	87-015-453-01	2.2μF 50V Electrolytic LL
C153,154,319	87-015-453-01	2.2μF 25V Electrolytic BP
C320,359,360	87-015-464-01	4.7μF 16V Electrolytic BP
C355,356,370	87-015-688-01	22μF 16V Electrolytic BP
C360,361,362	87-015-441-01	10μF 16V Electrolytic BP
C363,364	87-014-073-01	4700pF ±2% PP
C365,366	87-014-116-01	0.005μF ±2% PP
C367,368	87-014-116-01	0.005μF ±2% PP
C369,370	87-014-116-01	0.01μF ±2% PP
C371,372,375	87-014-123-01	0.01μF ±2% PP
C373,374	87-014-119-01	0.02μF ±2% PP
C375,376	87-014-120-01	0.05μF ±2% PP
C377,378	87-014-120-01	0.05μF ±2% PP
C379,380	87-014-120-01	0.05μF ±2% PP
C381,382	87-014-120-01	0.05μF ±2% PP
C383,384	87-014-120-01	0.05μF ±2% PP
C385,386	87-014-120-01	0.05μF ±2% PP
C387,388	87-014-120-01	0.05μF ±2% PP
C389,390	87-014-120-01	0.05μF ±2% PP
C391,392	87-014-120-01	0.05μF ±2% PP
C393,394	87-014-120-01	0.05μF ±2% PP
C395,396	87-014-120-01	0.05μF ±2% PP
C397,398	87-014-120-01	0.05μF ±2% PP
C399,400	87-014-120-01	0.05μF ±2% PP
C401,402	87-014-120-01	0.05μF ±2% PP
C403,404	87-014-120-01	0.05μF ±2% PP
C405,406	87-014-120-01	0.05μF ±2% PP
C407,408	87-014-120-01	0.05μF ±2% PP
C409,410	87-014-120-01	0.05μF ±2% PP
C411,412	87-014-120-01	0.05μF ±2% PP
C413,414	87-014-120-01	0.05μF ±2% PP
C415,416	87-014-120-01	0.05μF ±2% PP
C417,418	87-014-120-01	0.05μF ±2% PP
C419,420	87-014-120-01	0.05μF ±2% PP
C421,422	87-014-120-01	0.05μF ±2% PP
C423,424	87-014-120-01	0.05μF ±2% PP
C425,426	87-014-120-01	0.05μF ±2% PP
C427,428	87-014-120-01	0.05μF ±2% PP
C429,430	87-014-120-01	0.05μF ±2% PP
C431,432	87-014-120-01	0.05μF ±2% PP
C433,434	87-014-120-01	0.05μF ±2% PP
C435,436	87-014-120-01	0.05μF ±2% PP
C437,438	87-014-120-01	0.05μF ±2% PP
C439,440	87-014-120-01	0.05μF ±2% PP
C441,442	87-014-120-01	0.05μF ±2% PP
C443,444	87-014-120-01	0.05μF ±2% PP
C445,446	87-014-120-01	0.05μF ±2% PP
C447,448	87-014-120-01	0.05μF ±2% PP
C449,450	87-014-120-01	0.05μF ±2% PP
C451,452	87-014-120-01	0.05μF ±2% PP
C453,454	87-014-120-01	0.05μF ±2% PP
C455,456	87-014-120-01	0.05μF ±2% PP
C457,458	87-014-120-01	0.05μF ±2% PP
C459,460	87-014-120-01	0.05μF ±2% PP
C461,462	87-014-120-01	0.05μF ±2% PP
C463,464	87-014-120-01	0.05μF ±2% PP
C465,466	87-014-120-01	0.05μF ±2% PP
C467,468	87-014-120-01	0.05μF ±2% PP
C469,470	87-014-120-01	0.05μF ±2% PP
C471,472	87-014-120-01	0.05μF ±2% PP
C473,474	87-014-120-01	0.05μF ±2% PP
C475,476	87-014-120-01	0.05μF ±2%

Symbol No.	Part No.	Description
IC1	87402-477-01	IC, TC-911P
IC2	87402-995-01	IC, TC-40258P
IC3	87402-435-01	IC, MC-4080
IC1-3,5	89-309-455-61	Transistor, 2SC3461 (P)
IC4	89-309-455-61	Transistor, 2SC3461 (P)
Q4,6	89-107-330-61	Transistor, 2SA732(K, P)
Q7,16,25	89-318-464-51	Transistor, 2SC1846(R, S)
Q17	89-318-464-51	Transistor, 2SC1846(R, S)
Q17	89-408-804-01	(H, L, BU model) Transistor, 2SC9801 V
Q8,9	89-106-834-51	Transistor, 2SA689 (S)
Q10,11,19	89-313-634-01	Transistor, 2SC138(S)
Q12	89-407-624-01	Transistor, 2SD762(P)
Q13	89-108-854-51	Transistor, 2SA486(R, S)
Q14,18	89-309-455-61	Diode, 1N455
Q15	87402-785-01	Diode, 1N455
D19-22	87402-747-01	Zener diode, HZ-6B1
D23	87402-747-01	Zener diode, HZ-6B1
SFR1	87402-480-01	Semi-fixed resistor, 50k $\pm$ 1.8
PN15	82-481-647-01	Pin, 4P
$\Delta$ R89,90	87-029-083-01	100 $\Omega$ 1/4W Fuse resistor
$\Delta$ R23	87-029-094-01	1.0 $\Omega$ 1W Fuse resistor
<b>◀ METER CIRCUIT BOARD SECTION ▶</b>		
PCB-0	82-15-603-11	Meter circuit board
IC30	87402-351-01	IC, LB-1418
IC31-108	87402-351-01	IC, LB-1418
D801,802	82-861-614-01	LED, TLR-205
D903,904,905	87-029-679-01	LED, TLR-208
PL1,2	82-15-683-01	Meter lamp, BP 100mA
SFR105,106	87402-564-01	Semi-fixed resistor, 1k $\pm$ 0.8
PN1-21	87-030-914-01	Pin, 4P
C155,156	87-015-469-01	2.2 $\mu$ F 25V Electrolytic BP
C157,158	87-015-464-01	1.0 $\mu$ F 25V Electrolytic BP
<b>◀ DME CIRCUIT BOARD SECTION ▶</b>		
PCB-E	82-15-612-01	DME circuit board (H, C, G model)
IC3-E	82-135-588-01	DME circuit board (U, BU model)
IC1	82-537-652-11	IC, DM101A
<b>◀ RX CIRCUIT BOARD SECTION ▶</b>		
PCB-F	82-15-652-01	RX circuit board
IC1	87402-429-01	IC, 45890-X
IC2	87402-704-01	IC, 45890-X
IC3	87402-704-01	IC, 45890-X
IC4	87402-564-01	IC, CMOS TC4011BP
IC5	87402-657-01	IC, TC4028BP
Q1	89-318-446-01	Transistor, 2SC194(E)
Q2	89-318-446-01	Transistor, 2SC194(E)
A-9	89-309-455-61	Diode, 1N455
D1-4	87402-697-01	Diode, 1N1555
D5	87402-368-01	PN diode, M133HLF AW
X1	87-008-191-01	Ceramic, SFB-455R
PN-22	87402-403-01	Pin, 3P
PN-50	87402-403-01	Pin, 3P
PN-50	87-949-501-01	Pin, 3P

## MEMO

Symbol No.	Part No.	Description
CON-12	82-155-654-01	Connector ass'y, 9P
CON-13	82-155-651-01	Connector ass'y, 12P

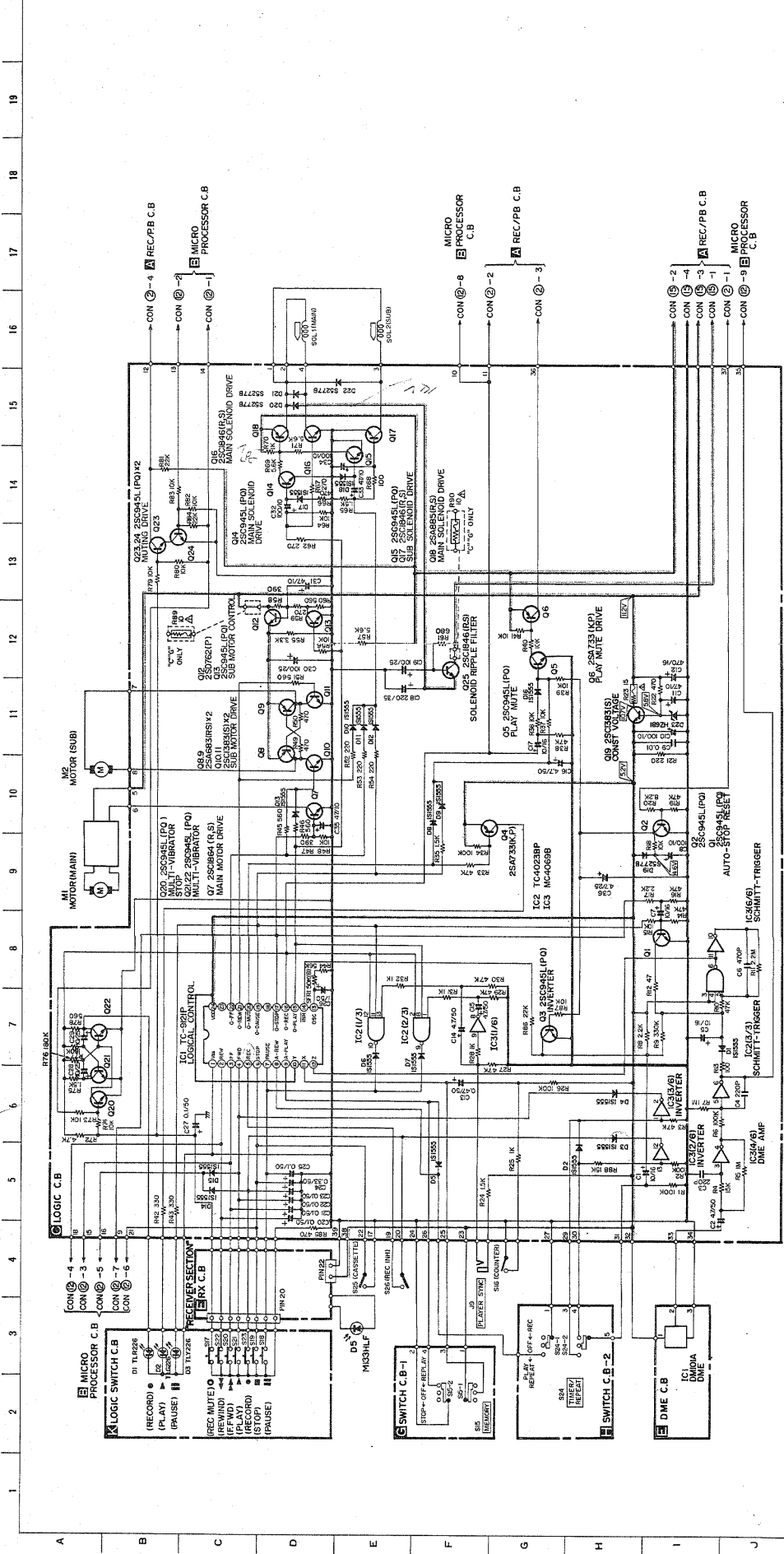
△ This symbol is given to important parts which are not covered by the standard specifications. Therefore, when replacing a component with this symbol, make absolutely sure that you use a designated part.

Symbol No.	Part No.	Description
△ S20	87-031-551-01	Rotary switch (VOLTAGE SELECTOR) (H model)
△ S30	87-031-542-01	Rotary switch (VOLTAGE SELECTOR) (H model)
△ F1	87-035-219-01	Fuse, T500mA (G model)
△	87-069-073-01	Fuse label, T500mA (G model)
△	87-033-147-01	Fuse clamp (G model)
△ C1	87-019-104-01	< Capacitor > Line capacitor 0.01μF
< MISCELLANEOUS >		
△ T1	82-155-631-01	Power transformer (H, G model)
△ T1	82-155-630-01	Power transformer (C model)
△ T1	82-155-628-01	Power transformer (U, BU model)
△ PH	82-155-624-01	PA, PH combination head
△ M1	87-046-172-01	Motor, DC-FG
△ M2	82-154-621-01	Motor, DC-EG
△ L1	82-319-615-11	Solenoid (FWD)
△ L2	82-319-615-11	Solenoid (REV)
△ PL	82-155-664-01	Pilot lamp, 8V 80mA
△ CP1	87-019-098-01	Compound capacitor 0.033μF±120% (C model)
△ CP1	87-028-006-01	Compound capacitor 0.033μF±120% (U, BU model)
△ J7	82-155-638-11	Jack, 6.3k (PHONES)
△ J8	82-155-641-01	Jack, 2.5k (PLAYER SYNC)
△ VR3	87-049-008-01	Volume, 10kΩ-9
△ S26, 27	87-031-610-01	BIAS FINE ADJUST
△ S25	82-319-613-01	Micro switch (Micro switch, CRO detection)
△ S29	87-031-467-01	Micro switch (Capacitor detection)
△ S29	87-031-520-01	Push-switch (POWER) (H, G model)
△ S29	87-031-520-01	Push-switch (POWER) (H, G model)
△	87-035-100-01	Slideless terminal (C, U, BU model)
△	87-034-826-01	AC cord (H model)
△	87-034-951-01	AC cord (C, U, BU model)
△	87-034-882-01	AC cord (G model)
△	87-085-165-01	Cord bushing (H, C, U, BU model)
△	82-155-655-01	Connector ass'y, 3P
CON-18	82-155-636-01	Connector ass'y, 3P
CON-17	82-155-648-01	Connector ass'y, 3P
CON-4	82-155-663-01	Connector ass'y, 3P
CON-10	82-155-663-01	Connector ass'y, 3P
CON-26	82-155-663-01	Connector ass'y, 3P
CON-16	82-155-649-11	Connector ass'y, 4P
CON-15	82-155-669-11	Connector ass'y, 4P
CON-6	82-155-674-01	Connector ass'y, 4P
CON-21	82-155-677-01	Connector ass'y, 4P
CON-2	82-155-677-01	Connector ass'y, 4P
CON-1	82-155-677-01	Connector ass'y, 4P
CON-5	82-155-682-01	Connector ass'y, 6P
CON-9	82-155-692-01	Connector ass'y, 6P
CON-14	82-155-696-01	Connector ass'y, 6P
CON-11	82-155-657-01	Connector ass'y, 6P
CON-5	82-155-655-01	Connector ass'y, 7P
CON-1	82-155-655-01	Connector ass'y, 7P
CON-20	82-155-689-01	Connector ass'y, 8P

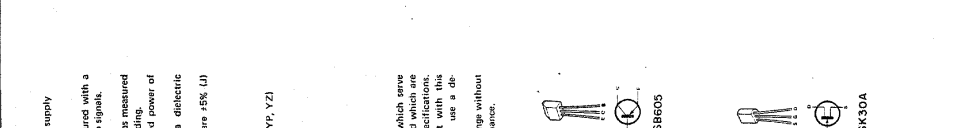
Symbol No.	Part No.	Description
R1	87-025-286-01	< Resistor > 22kΩ 1W ±1% Metal film
< SWITCH CIRCUIT BOARD-1 SECTION >		
PCB-G	82-155-611-01	Switch circuit board-1 (H, C, G model)
PCB-G	82-155-685-01	Switch circuit board-1 (U, BU model)
S15	82-318-615-01	Laser switch (MEMORY)
< SWITCH CIRCUIT BOARD-2 SECTION >		
PCB-H	82-155-610-01	Switch circuit board-2 (H, C, G model)
PCB-H	82-155-684-01	Switch circuit board-2 (U, BU model)
S24	87-031-502-01	Pin switch (TIMER/REPEAT)
PN17, 18	87-032-503-01	PIN, 3P
PN16	87-032-504-01	PIN, 4P
PN19	87-032-505-01	PIN, 6P
< TAPE/CHANNEL SWITCH CIRCUIT BOARD SECTION >		
PCB-J	82-155-618-11	Tape/channel switch circuit board (LED, T.L.G-2055)
D1, 10, 11, 12	82-155-661-01	LED, T.L.G-2055
D14	82-561-614-01	LED, T.L.R-205
S4-11, D2-9	87-031-556-01	Push-switch w/LED (Push-switch, T-4, TAPE SELECTOR)
S12-14	87-031-557-01	Push-switch (COMPU BRAIN, MEMORY IN, START)
< LOGIC CIRCUIT BOARD SECTION >		
PCB-K	82-155-620-11	Logic circuit board (LED, T.L.R-229)
D1	87-027-636-01	LED, T.L.G-229
D2	87-027-637-01	LED, T.L.G-226
D3	87-027-638-01	LED, T.L.Y-226
S17-23	87-031-556-01	Push-switch (Logic control switch)
< BIAS LED CIRCUIT BOARD SECTION >		
PCB-L	82-155-619-11	Bias LED circuit board (LED, T.L.Y-226)
D1	87-027-638-01	LED, T.L.Y-226
< VOLUME CIRCUIT BOARD-1 SECTION >		
PCB-M	82-155-605-11	Volume circuit board-1 (H, C, G model)
PCB-M	82-155-679-01	Volume circuit board-1 (U, BU model)
VR2	82-155-645-01	Volume, 10kΩ-A (VOLUME LEVEL)
< VOLUME CIRCUIT BOARD-2 SECTION >		
PCB-N	82-155-604-11	Volume circuit board-2 (H, C, G model)
PCB-N	82-155-678-01	Volume circuit board-2 (U, BU model)
VR1	82-155-644-01	Volume, 20kΩ-A (RECORD LEVEL)
< VOLTAGE SELECTOR CIRCUIT BOARD SECTION >		
PCB-P	82-154-608-11	Voltage selector circuit board = H, G model



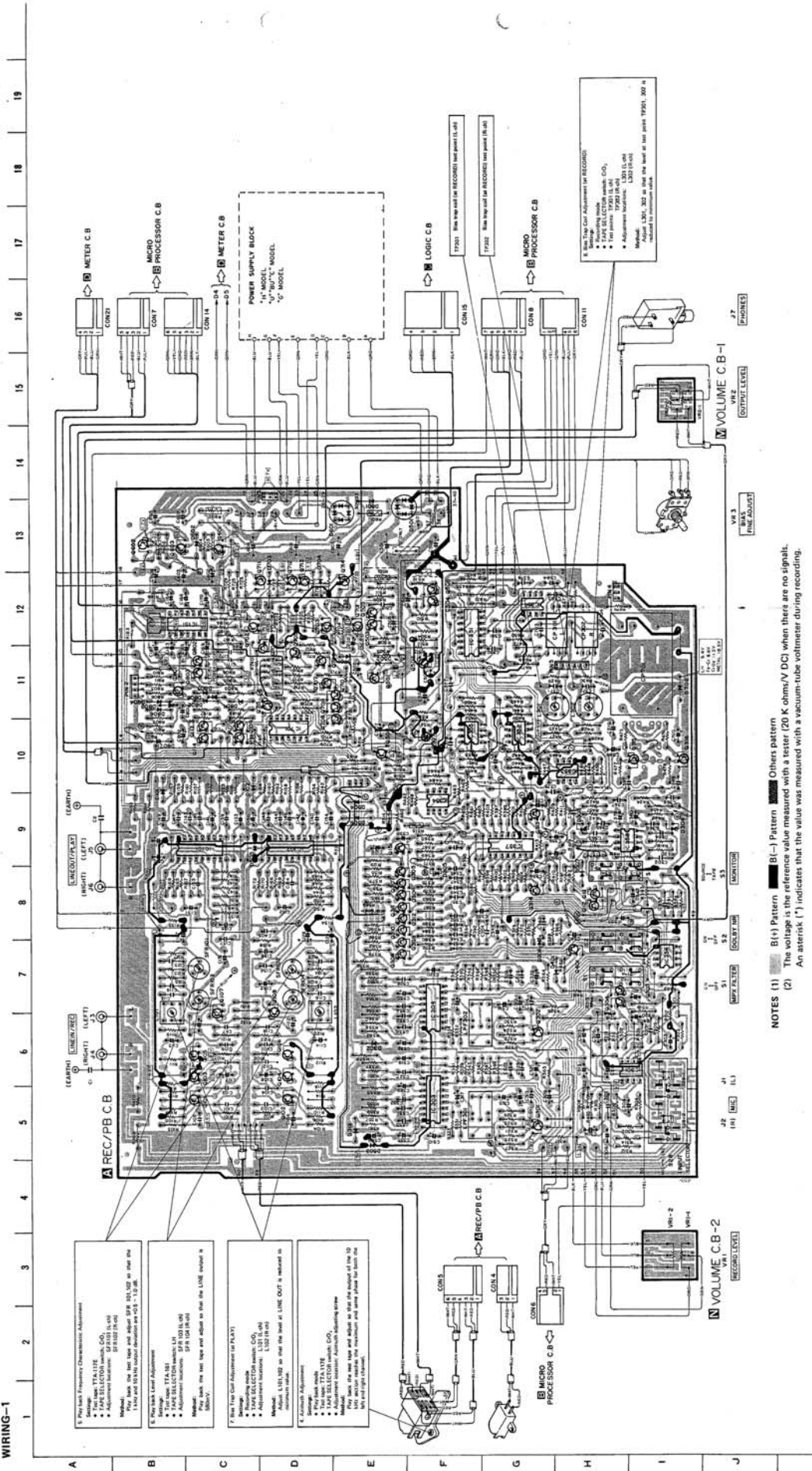
SCHEMATIC DIAGRAM -2







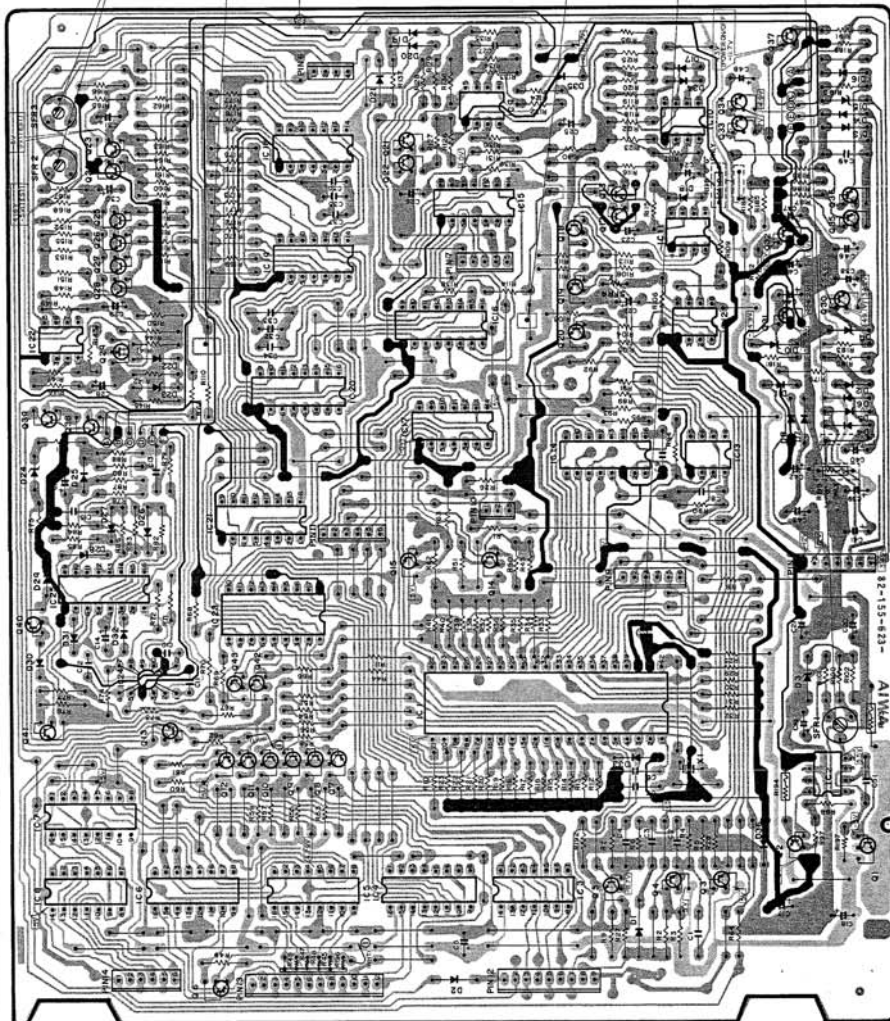
## WIRING-1





pattern

pattern



2. Power Supply Voltage Adjustment

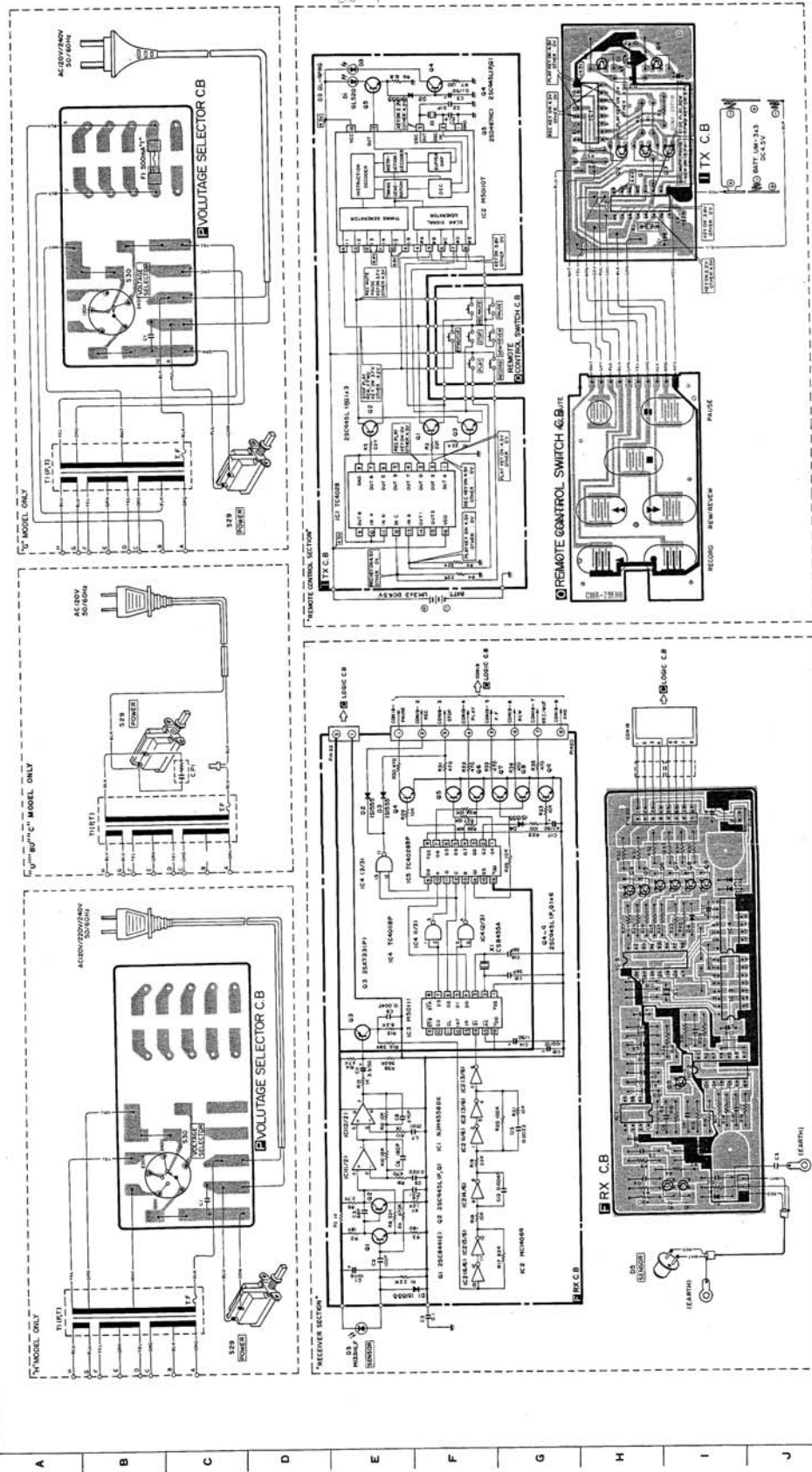
Settings:-

- Test point: TP1
- Adjustment location: S5 R1

Method:-

Adjust so that the voltage between test point and ground is 5.00 ± 0.03V.

**NOTES** (1) Pattern A B(+) Pattern B(-) Pattern Others pattern



- NOTES (1) **B(+)** Pattern **Others** pattern  
 (2) The voltage is the reference value measured with a tester (20 K ohm/V DC) when there are no signals.